WHAT IS CLAIMED IS:

1. An intermediate layer material composition for a multilayer resist process, comprising (A) a polymer containing a repeating unit having on a side chain thereof a group represented by the following general formula (A-I):

wherein R_1 represents an alkyl group, an alkoxyl group, an aryl group, an aralkyl group, a cyclopentyl group or a cyclohexyl group; a plurality of R_1 's each may be the same or different.

2. The intermediate layer material composition described in claim 1, wherein the polymer is a polymer having at least one of repeating units represented by the following general formulas (a-1) to (a-4):

'wherein (A-I) represents the group represented by the general formula (A-I) described in claim 1; R_2 represents a hydrogen atom or a methyl group; R_3 represents an alkylene group or a phenylene group; R_4 represents an alkylene group, a phenylene group or -C(=0)-O-R'-; R' represents an alkylene group.

3. The intermediate layer material composition described in claim 1, wherein the polymer further contains at least one of a repeating unit represented by the following general formula (A-II) and a repeating unit represented by the following general formula (A-III):

$$R_5$$
 $-(CH_2-CH)$
 R_6

wherein R_5 represents a hydrogen atom or a methyl group; R_6 represents an aryl group or an aralkyl group.

4. The intermediate layer material composition

'described in claim 1, wherein the polymer contains the repeating unit having on a side chain thereof the group represented by the following general formula (A-I) in an amount of 3 to 90 mol%.

- 5. The intermediate layer material composition described in claim 1, which further comprises (B) a crosslinking agent.
- 6. The intermediate layer material composition described in claim 5, wherein the crosslinking agent (B) is a phenol derivative having a molecular weight of 1,200 or less, containing 3 to 5 benzene rings in its molecule, and having 2 or more hydroxymethyl groups or alkoxymethyl groups in total, wherein the hydroxymethyl groups or alkoxymethyl groups bind to the benzene rings.
- 7. The intermediate layer material composition described in claim 1, which further comprises (C) a compound capable of generating an acid by heat.
- 8. The intermediate layer material composition described in claim 1, which further comprises (D) a solvent.
 - 9. The intermediate layer material composition

'described in claim 1, which further comprises (E) a surfactant.

10. A process for forming a resist pattern, which comprises:

forming on a substrate a lower resist layer comprising an organic material;

forming on the lower resist layer an intermediate layer using the intermediate layer material composition described in claim 1;

forming on the intermediate layer an upper resist layer comprising an organic material crosslinkable or decomposable by a radiation exposure;

forming a predetermined pattern on the upper resist layer; and

etching the intermediate layer, the lower resist layer and the substrate, sequentially.

- 11. The process described in claim 10, wherein the intermediate layer is formed by coating the intermediate layer material composition described in claim 1 on the lower resist layer, and then baking the coating to be insolubilized in an organic solvent.
- 12. The process described in claim 11, wherein the coating is baked at a temperture of 150 to 250°C.

- 13. The process described in claim 10, wherein the lower resist layer has a thickness of 0.1 to 4.0 $\mu m\,.$
- 14. The process described in claim 10, wherein the intermediate layer has a thickness of 0.02 to 0.6 $\mu m\,.$
- 15. The process described in claim 10, wherein the upper layer has a thickness of 0.03 to 0.6 $\mu m\,.$